DOCUMENT RESUME

ED 434 036 SE 062 889

AUTHOR	Farmer, Lesley S. J.
TITLE	Go Figure! Mathematics through Sports.
ISBN	ISBN-1-56308-708-1
PUB DATE	1999-00-00
NOTE	170p.
AVAILABLE FROM	Teacher Ideas Press/Libraries Unlimited, P.O. Box 6633, Englewood, CO 80155-6633. Tel: 800-237-6124 (Toll Free).
PUB TYPE	Books (010)
EDRS PRICE	Document Not Available from EDRS.
DESCRIPTORS	*Athletics; Elementary Secondary Education; *Mathematics Activities; *Mathematics Instruction

ABSTRACT

This book brings the notions of sports and mathematics together. Educators can use sports to provide a real-life context based on student interest. Not only do students become aware of mathematical thinking, but they can be "trained" to improve their mathematical skills and habits of mind through sports-related learning experiences in math. A second agenda of fostering student information literacy is also addressed. Answers are not included, and even the data upon which to derive an answer are often outside the text. Part I of the book addresses "math power": contemporary mathematical education. Based on the 1989 National Council of Teachers of Mathematics (NCTM) document on school mathematics curriculum, it explains how to structure educational experiences to help students think and communicate, drawing on mathematical ideas and using mathematical tools and techniques. A special note for librarians concludes this part, which shows how to use reference tools to help students gather and process sports and math data. Most of the book is composed of units that explore mathematical concepts using a meaningful sports context. Five major topics are covered, each with its own mathematical focus. Within each topic, units are arranged from single-concept exercises (warm-ups) to extensive open-ended projects (marathons). A lesson template notes the mathematical strand, sport, and information skill. The physiology unit focuses on measurement, the training unit focuses on functions, and the third unit, how to play the game, highlights geometry. The sports competition unit focuses on statistics while the last unit examines sports economics, emphasizing data representation. (Contains 86 references.) (ASK)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

THIS
DOCUMENT
NOT
AVAILABLE
FROM

EDRS